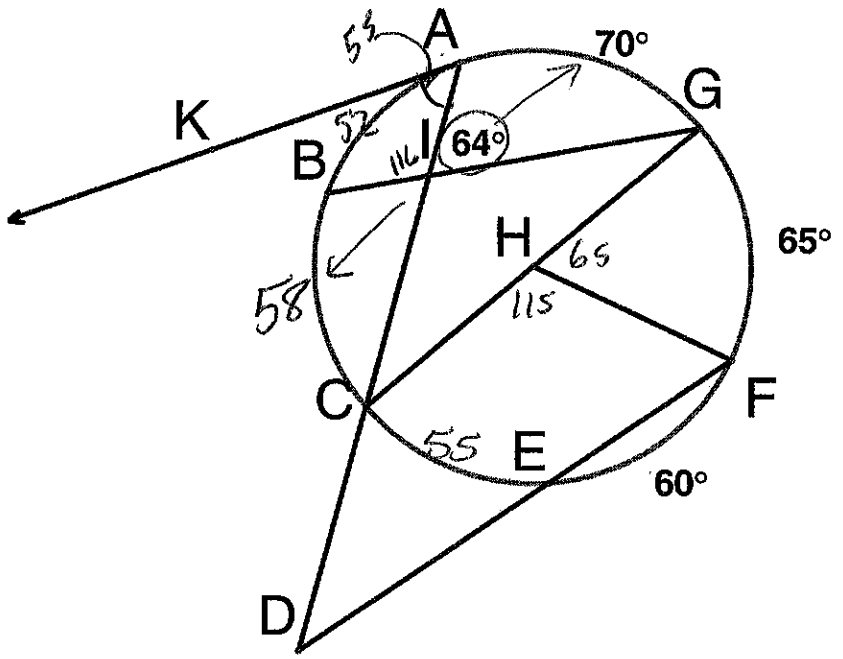
Name Key Date

202 Angle Review Picture



$\overline{CG}$ **is the diameter**

$\overline{KA}$ **is tangent to ⊙H**

Find the measures of the following arcs and angles. Make sure you think about what kind of angle it is before you find it. (Central, inscribed, inside, or outside)

Find:

m$\overset{\frown}{CE}$ = 55 ← 115 − 60 = 55; 64 = ½(70 + x); 128 = 70 + x; −70

m$\overset{\frown}{CB}$ = 58 (180 − 70 − 52)

m$\overset{\frown}{AB}$ = 52

m∠ACG = ½ 70 = 35

m∠D = 40 ½(135 − 55) 50

m∠GHF = 65 = arc

m∠FHC = 115 = arc 55 + 60

m∠AIB = 116 180 − 64 or = ½(52 + 55 + 60 + 65)

m∠KAC = ½(110) = 55

m∠BGC = ½(58) = 29

NAME _____ DATE _____ PERIOD ____

10-8 Skills Practice

Equations of Circles

Write an equation for each circle.

1. center at origin, $r = 6$

$x^2 + y^2 = 36$

2. center at (0, 0), $r = 2$

$x^2 + y^2 = 4$

3. center at (4, 3), $r = 9$

$(x-4)^2 + (y-3)^2 = 81$

4. center at (7, 1), $d = 24$

$(x-7)^2 + (y-1)^2 = 144$

5. center at (−5, 2), $r = 4$

$(x+5)^2 + (y-2)^2 = 16$

6. center at (6, −8), $d = 10$

$(x-6)^2 + (y+8)^2 = 25$

7. a circle with center at (8, 4) and a radius with endpoint (0, 4)

$64 = (x-8)^2 + (y-4)^2$

$(0-8)^2 + (4-4)^2$

8. a circle with center at (−2, −7) and a radius with endpoint (0, 7)

$r^2 = (0+2)^2 + (7+7)^2$

$4 + 196$

200

$200 = (x+2)^2 + (y+7)^2$

9. a circle with center at (−3, 9) and a radius with endpoint (1, 9)

$16 = (x+3)^2 + (y-9)^2$

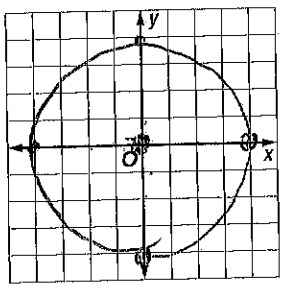
10. a circle whose diameter has endpoints (−3, 0) and (3, 0)

$C(0,0)$

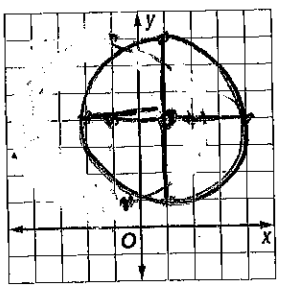
$x^2 + y^2 = 9$

Graph each equation.

11. $x^2 + y^2 = 16$



12. $(x-1)^2 + (y-4)^2 = 9$



$C(1,4)$

$r = 3$